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<u>L5</u>	l1 and l2 and L4	1	<u>L5</u>
<u>L4</u>	methyl-beta-cyclodextrin or mbetacd	203	<u>L4</u>
<u>L3</u>	l1 with l2	3	<u>L3</u>
<u>L2</u>	(remov\$ or reduc\$ or decreas\$ or diminish\$) near7 (alcohol or sterol or cholesterol)	50185	<u>L2</u>
<u>L1</u>	(oligosaccharide or trehalose or mannose or sucrose or fructose) near6 cell	4123	<u>L1</u>

END OF SEARCH HISTORY

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1. 20020114791. 16 Jan 02. 22 Aug 02. Erythrocytic cells and method for preserving cells.
Crowe, John H., et al. 424/93.21; 514/178 A61K048/00 A61K031/56.

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1. 20020155126. 13 Feb 01. 24 Oct 02. Pharmacological composition containing yeast cell wall fraction. Shirasu, Yoshiharu, et al. 424/195.16; A61K035/72.

2. 20020114791. 16 Jan 02. 22 Aug 02. Erythrocytic cells and method for preserving cells. Crowe, John H., et al. 424/93.21; 514/178 A61K048/00 A61K031/56.

3. 5733762. 31 Oct 96; 31 Mar 98. Complexes of nucleic acid and polymer, their process of preparation and their use for the transfection of cells. Midoux; Patrick, et al. 435/458; 435/325 514/44 530/300 530/345 530/350 530/395 530/402 536/23.2 536/23.5 536/23.7 536/24.5. C07K001/00 C07K001/107 C12N015/00 C12N015/88.

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FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 16:25:36 ON 12 JUN 2003

L1 29117 S (OLIGOSACCHARIDE OR TREHALOSE OR SUCROSE OR FRUCTOSE OR MANNO
L2 143146 S (REMOV? OR REDUC? OR DECREAS? OR DIMINISH?) (7A) (ALCOHOL OR ST
L3 43 S L1(S)L2
L4 2850 S METHYL-BETA-CYCLODEXTRIN OR MBETACD
L5 4 S L3 AND L4
L6 260 S L2 AND L4
L7 0 S L6 AND (EUKARYOTIC OR ERYTHROCYTIC) (3A) CELL
L8 27 DUP REM L3 (16 DUPLICATES REMOVED)
L9 2 DUP REM L5 (2 DUPLICATES REMOVED)

=> d bib ab 1-2 19

L9 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 2001:525427 BIOSIS
DN PREV200100525427
TI Fluorescence anisotropy measurements of lipid order in plasma membranes and lipid rafts from RBL-2H3 mast cells.
AU Gidwani, Arun; Holowka, David; Baird, Barbara (1)
CS (1) Department of Chemistry and Chemical Biology, Baker Laboratory, Cornell University, Ithaca, NY, 14853-1301: bab13@cornell.edu USA
SO Biochemistry, (October 16, 2001) Vol. 40, No. 41, pp. 12422-12429. print.
ISSN: 0006-2960.
DT Article
LA English
SL English
AB Specialized plasma membrane domains known as lipid rafts participate in signal transduction and other cellular processes, and their liquid ordered (Lo) phase appears to be important for their function. To quantify ordered lipids in biological membranes, we investigated steady-state fluorescence anisotropy of two lipid probes, 2-(3-(diphenylhexatrienyl)propanoyl)-1-hexadecanoyl-sn-glycero-3-phosphocholine (DPH-PC) and N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)-1,2-dihexadecanoyl-sn-glycero-3-phosphoethanolamine (NBD-PE). We show using model membranes with varying amounts of cholesterol that steady-state fluorescence anisotropy is a sensitive measure of cholesterol-dependent ordering. The results suggest that DPH-PC is a more sensitive probe than NBD-PE. In the presence of cholesterol, ordering also depends on the degree of saturation of the phospholipid acyl chains. Using DPH-PC, we find that the plasma membrane of RBL-2H3 mast cells is substantially ordered, roughly 40%, as determined by comparison with anisotropy values for model membranes entirely in a liquid ordered (Lo) phase and in a liquid disordered (Lalpha) phase. This result is consistent with the finding that apprx30% of plasma membrane phospholipids are insoluble in 0.5% Triton X-100. Furthermore, detergent-resistant membranes isolated by sucrose gradient fractionation of Triton X-100 cell lysates are more ordered than plasma membrane vesicles, suggesting that they represent a more ordered subset of the plasma membrane.. Treatment of plasma membrane vesicles with methyl-beta-cyclodextrin resulting in 75% cholesterol depletion leads to commensurate decreases in lipid order as measured by anisotropy of DPH-PC and NBD-PE. These results demonstrate that steady-state fluorescence anisotropy of DPH-PC is a useful way to measure the amount of lipid order in biological membranes.

L9 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AN 1999:325553 BIOSIS
DN PREV199900325553
TI Critical role for cholesterol in Lyn-mediated tyrosine phosphorylation of

AU FcepsilonRI and their association with detergent-resistant membranes.
AU Sheets, Erin D.; Holowka, David (1); Baird, Barbara (1)
CS (1) Department of Chemistry and Chemical Biology, Baker Laboratory,
Cornell University, Ithaca, NY, 14853-1301 USA
SO Journal of Cell Biology, (May 17, 1999) Vol. 145, No. 4, pp. 877-887.
ISSN: 0021-9525.
DT Article
LA English
SL English
AB Tyrosine phosphorylation of the high affinity immunoglobulin (Ig)E receptor (FcepsilonRI) by the Src family kinase Lyn is the first known biochemical step that occurs during activation of mast cells and basophils after cross-linking of FcepsilonRI by antigen. The hypothesis that specialized regions in the plasma membrane, enriched in sphingolipids and cholesterol, facilitate the coupling of Lyn and FcepsilonRI was tested by investigating functional and structural effects of cholesterol depletion on Lyn/FcepsilonRI interactions. We find that **cholesterol depletion with methyl-beta-cyclodextrin** substantially reduces stimulated tyrosine phosphorylation of FcepsilonRI and other proteins while enhancing more downstream events that lead to stimulated exocytosis. In parallel to its inhibition of tyrosine phosphorylation, cholesterol depletion disrupts the interactions of aggregated FcepsilonRI and Lyn on intact cells and also disrupts those interactions with detergent-resistant membranes that are isolated by **sucrose gradient ultracentrifugation of lysed cells**. Importantly, cholesterol repletion restores receptor phosphorylation together with the structural interactions. These results provide strong evidence that membrane structure, maintained by cholesterol, plays a critical role in the initiation of FcepsilonRI signaling.

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1

AU Kilkus, John; Goswami, Rajendra; Testai, Fernando D.; Dawson, Glyn (1)
TI Ceramide in rafts (Detergent-Insoluble Fraction) mediates cell death in neurotumor cell lines.
SO Journal of Neuroscience Research, (April 1 2003) Vol. 72, No. 1, pp. 65-75. print.
ISSN: 0360-4012.

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AU Wang, Yan; Yamaguchi, Kazunori; Wada, Tadashi; Hata, Keiko; Zhao, Xuejian; Fujimoto, Toyoshi; Miyagi, Taeko (1)
TI A close association of the ganglioside-specific sialidase Neu3 with caveolin in membrane microdomains.
SO Journal of Biological Chemistry, (July 19, 2002) Vol. 277, No. 29, pp. 26252-26259. <http://www.jbc.org/>. print.
ISSN: 0021-9258.

L8 ANSWER 3 OF 27 MEDLINE DUPLICATE 3
AU Anterola Aldwin M; Jeon Jae-Heung; Davin Laurence B; Lewis Norman G
TI Transcriptional control of monolignol biosynthesis in *Pinus taeda*: factors affecting monolignol ratios and carbon allocation in phenylpropanoid metabolism.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 May 24) 277 (21) 18272-80.
Journal code: 2985121R. ISSN: 0021-9258.
(Investigators: Lewis N G, WA St U, Pullman)

L8 ANSWER 4 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
4

AU Mallouchos, A.; Reppa, P.; Aggelis, G.; Kanellaki, M.; Koutinas, A. A.;

Komaitis, M. (1)
TI Grape skins as a natural support for yeast immobilization.
SO Biotechnology Letters, (August, 2002) Vol. 24, No. 16, pp. 1331-1335.
<http://www.kluweronline.com/issn/0141-5492>. print.
ISSN: 0141-5492.

L8 ANSWER 5 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
5
AU Ishihara, Masanobu (1); Nerome, Miho; Taira, Toki; Tawata, Shinkichi;
Kobamoto, Naotada
TI Release of ferulic acid from rice koji in Awamori brewing: Note.
SO Seibutsu-Kogaku Kaishi, (2002) Vol. 80, No. 12, pp. 563-567. print.
ISSN: 0919-3758.

L8 ANSWER 6 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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AU Stefanov, Kamen; Nechev, Jordan; Lavchieva-Nacheva, Ganina; Nikolova,
Nelly; Seizova, Katya; Kwartirnikov, Michail; Lavchiev, Valentin; Popov,
Simeon (1)
TI Lipids and sterols in Musca domestica L. (Diptera, Muscidae): Changes
after treatment with sucrose and lead.
SO Comparative Biochemistry and Physiology Part B Biochemistry & Molecular
Biology, (March, 2002) Vol. 131B, No. 3, pp. 543-550.
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ISSN: 1096-4959.

L8 ANSWER 7 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
7
AU Gidwani, Arun; Holowka, David; Baird, Barbara (1)
TI Fluorescence anisotropy measurements of lipid order in plasma membranes
and lipid rafts from RBL-2H3 mast cells.
SO Biochemistry, (October 16, 2001) Vol. 40, No. 41, pp. 12422-12429. print.
ISSN: 0006-2960.

L8 ANSWER 8 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
8
AU Luker, Gary D.; Pica, Christina M.; Kumar, A. Sampath; Covey, Douglas F.;
Piwnica-Worms, David (1)
TI Effects of cholesterol and enantiomeric cholesterol on P-glycoprotein
localization and function in low-density membrane domains.
SO Biochemistry, (July 4, 2000) Vol. 39, No. 26, pp. 7651-7661.
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L8 ANSWER 9 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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AU Okamoto, Yasuo; Ninomiya, Haruaki; Miwa, Soichi; Masaki, Tomoh (1)
TI Cholesterol oxidation switches the internalization pathway of endothelin
receptor type A from caveolae to clathrin-coated pits in Chinese hamster
ovary cells.
SO Journal of Biological Chemistry, (March 3, 2000) Vol. 275, No. 9, pp.
6439-6446. print.
ISSN: 0021-9258.

L8 ANSWER 10 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
10
AU Sheets, Erin D.; Holowka, David (1); Baird, Barbara (1)
TI Critical role for cholesterol in Lyn-mediated tyrosine phosphorylation of
FcepsilonRI and their association with detergent-resistant membranes.
SO Journal of Cell Biology, (May 17, 1999) Vol. 145, No. 4, pp. 877-887.
ISSN: 0021-9525.

L8 ANSWER 11 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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AU Myers, Simon J.; Stanley, Keith K. (1)
TI Src family kinase activation in glycosphingolipid-rich membrane domains of endothelial cells treated with oxidised low density lipoprotein.
SO Atherosclerosis, (April, 1999) Vol. 143, No. 2, pp. 389-397.
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L8 ANSWER 12 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 12
AU Leonardo, Michael R.; Cunningham, Philip R.; Clark, David P. (1)
TI Anaerobic regulation of the adhE gene, encoding the fermentative alcohol dehydrogenase of Escherichia coli.
SO Journal of Bacteriology, (1993) Vol. 175, No. 3, pp. 870-878.
ISSN: 0021-9193.

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AU BARBOSA M D F S; LEE H
TI PLASMA MEMBRANE MAGNESIUM ATPASE OF PACHYOLEN-TANNOPHILUS CHARACTERIZATION AND ROLE IN ALCOHOL TOLERANCE.
SO APPL ENVIRON MICROBIOL, (1991) 57 (7), 1880-1885.
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L8 ANSWER 14 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 14
AU GUTIERREZ L E; ANNICHINO A V K O; LUCATTI L; STIPP J M S
TI EFFECTS OF ACETIC ACID ON ALCOHOLIC FERMENTATION.
SO ARQ BIOL TECNOL (CURITIBA), (1991) 34 (2), 235-242.
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AU ECHEVARRIA F; NORTON R A; NES W D; LANGE Y
TI ZYMOSTEROL IS LOCATED IN THE PLASMA MEMBRANE OF CULTURED HUMAN FIBROBLASTS.
SO J BIOL CHEM, (1990) 265 (15), 8484-8489.
CODEN: JBCHA3. ISSN: 0021-9258.

L8 ANSWER 16 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU ANTHON G E; EMERICH D W
TI DEVELOPMENTAL REGULATION OF ENZYMES OF SUCROSE AND HEXOSE METABOLISM IN EFFECTIVE AND INEFFECTIVE SOYBEAN NODULES.
SO PLANT PHYSIOL (BETHESDA), (1990) 92 (2), 346-351.
CODEN: PLPHAY. ISSN: 0032-0889.

L8 ANSWER 17 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU RAO M V
TI HISTOPHYSIOLOGICAL CHANGES OF SEX ORGANS IN METHYLMERCURY INTOXICATED MICE.
SO ENDOCRINOL EXP, (1989) 23 (1), 55-62.
CODEN: ENEXAM. ISSN: 0013-7200.

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AU GRUDA I; GAUTHIER E; ELBERG S; BRAJTBURG J; MEDOFF G
TI EFFECTS OF THE DETERGENT SUCROSE MONOLAURATE ON BINDING OF AMPHOTERICIN B TO STEROLS AND ITS TOXICITY FOR CELLS.
SO BIOCHEM BIOPHYS RES COMMUN, (1988) 154 (3), 954-958.
CODEN: BBRCA9. ISSN: 0006-291X.

L8 ANSWER 19 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
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TI EFFECTS OF SUGARCANE CHIP PRETREATMENTS ON THEIR CONVERSION TO ETHANOL USING THE EX-FERM PROCESS PARTICLE SIZE STORAGE DRYING OR ENSILAGE.
SO ENZYME MICROB TECHNOL, (1986) 8 (8), 491-497.
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AU DELLA-CIOPPA G; MUFFLY K E; YANAGIBASHI K; HALL P F
TI PREPARATION AND CHARACTERIZATION OF SUBMITOCHONDRIAL FRACTIONS FROM ADRENAL CELLS.
SO MOL CELL ENDOCR, (1986) 48 (2-3), 111-120.
CODEN: MCEND6. ISSN: 0303-7207.

L8 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU SKILLETER D N; PRICE R J; THORPE P E
TI MODIFICATION OF THE CARBOHYDRATE IN RICIN WITH METAPERIODATE AND CYANOBOROHYDRIDE MIXTURES EFFECT ON BINDING UPTAKE AND TOXICITY TO PARENCHYMAL AND NON-PARENCHYMAL CELLS OF RAT LIVER.
SO BIOCHIM BIOPHYS ACTA, (1985) 842 (1), 12-21.
CODEN: BBACAQ. ISSN: 0006-3002..

L8 ANSWER 22 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU VOLPE J J; GOLDBERG R I
TI EFFECT OF TUNICAMYCIN ON 3 HYDROXY-3-METHYL GLUTARYL COENZYME A REDUCTASE IN C-6 GLIAL CELLS.
SO J BIOL CHEM, (1983) 258 (15), 9220-9226.
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L8 ANSWER 23 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU JACOBSON K; HOU Y; DERZKO Z; WOJCIESZYN J; ORGANISCIAK D
TI LIPID LATERAL DIFFUSION IN THE SURFACE MEMBRANE OF CELLS AND IN MULTI BI LAYERS FORMED FROM PLASMA MEMBRANE LIPIDS.
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AU CHINOY N J; SHARMA J D; SEETHALAKSHMI L; SANJEEVAN A G
TI EFFECTS OF PROSTAGLANDINS ON HISTO PHYSIOLOGY OF MALE REPRODUCTIVE ORGANS AND FERTILITY IN RATS.
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AU ATKINSON A; ELLWOOD D C; EVANS C G T; YEO R G
TI PRODUCTION OF ALCOHOL BY BACILLUS-STEAROTHERMOPHILUS.
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AU Bourne, E. J.; Hartigan, J.; Weigel, H.
TI Mechanism of the enzymic synthesis of a branched trisaccharide containing the .alpha.-1,2 glycosidic linkage
SO Journal of the Chemical Society, Abstracts (1959) 2332-7
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L8 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS
AU Geoghegan, M. J.; Brian, R. C.
TI Influence of bacterial polysaccharides on aggregate formation in soils
SO Nature (1946), 158, 837

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